



ERCOFTAC Autumn Festival 2022 hosted by Pilot Centre Henri Bénard/LMFA/Ecole Centrale de Lyon

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Day 1: Thursday, 6th October 2022

Ecole Centrale de Lyon, 36 Av. Guy de Collongue, 69134 Écully Skylab, Conference-room Co-Design

PC Henri Bénard presentations

09:00 - 09:20	Welcome and forewords by Christophe Corre (ECL) and Christophe Bailly (LMFA)
09:20 – 09:50	Multi-GPU Lattice Boltzmann simulation of solar wind turbulence by Emmanuel Levêque (LMFA, France)
09:50 - 10:20	Near-nozzle acoustic tones in free jets: coupling with Kelvin-Helmholtz instability waves by Christophe Bogey (LMFA, France)
10:20 - 10:40	Refreshment Break
10:40 - 11:10	Settling and collision of ice crystals in turbulent clouds by Alain Pumir (ENS Lyon, France)
11:10 - 11:40	Adaptive methods in the simulation of two-phase flows with interfaces by Vincent Moureau (CORIA, Rouen, France)
11:40 - 12:10	Weak spots and perforations in thin liquid sheets by Stephane Zaleski (Inst. D'Alembert, Sorbonne-University, Paris, France)
12:10 – 12:40	Metal powder production in a supersonic injector with swirl by Nicolas Rimbert (LEMTA, Vandoeuvre-lès-Nancy, France)
13:00 - 13:40	Lunch
	Finals of the 17 th ERCOFTAC Da Vinci Competition
14:00 – 14:20	Mobin Alipour (TU Wien, Austria) Orientation and rotation rates of non-axisymmetric fibers in turbulent channel flow
14:20 – 14:40	Lukas Berger (RWTH Aachen University, Germany) Numerical study on thermodiffusive instabilities in laminar and turbulent hydrogen flames
14:40 – 15:00	Nicolò Scapin (KTH Stockholm, Sweden) Phase-changing flows: numerical methods and fully resolved simulations
15:00 - 15:20	Markus Scherer (Karlsruhe Institute of Technology, Germany) Turbulent coherent structures, secondary currents and sediment ridges
15:20 – 15:40	Sumit Tambe (TU Delft, The Nethrlands) Boundary-layer instability on rotating cones: an experiment-based exploration

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15:40 – 16:10	Coffee Break / Committee meets and selects a winner
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16:10 – 16:40 Da Vinci Award Ceremony and Closing

16:40 - 17:40 Visit of aero-acoustic facilities – presented by Prof. Mac Jacob

19:30 Dinner at "Le Bouchon des Filles"

The address is: 20, rue Sergent-Blandan, près de la place Sathonay, 69001 Lyon

https://lebouchondesfilles.fr/#trouver

Day 2: Friday, 7th October 2022

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Scientific Programme Committee (SPC) and Knowledge Network Committee (KNC) Managing Board (MB) and General Assembly (GA) Meetings

09:00 - 09:10 Welcome

09:10 - 12:30 SPC and KNC Meetings

10:30 – 11:00 Coffee Break

11:00 - 12:30 SPC and KNC Meetings continue

12:30 - 13:30 Lunch

13:30 - 16:30 MB and GA Meetings

15:00 – 15:30 Coffee Break

15:30 - 16:30 MB and GA Meetings continue

Monday/Tuesday, 10th and 11th October 2022

Ecole Centrale de Lyon, 36 Av. Guy de Collongue, 69134 Écully Skylab, Conference-room Co-Design

Best Practice Guidance Seminar CFD for Dispersed Multi-Phase Flows 2022 with Problem Shooting Session

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